

CHARACTERISTICS DATA / SPECIFICATIONS

		Unit	FS140 PLATE	FS240 PLATE	FS240 BAR	FS740 PLATE
Heat Treatment Temperature		°C	2500	2000	2000	2000
Bulk Density		g/cm ³	1.6	1.6	1.6	1.6
Flexural Strength	⊥	MPa	130	180	147	190
Flexural Modulus	⊥	GPa	65	45	44	41
Tensile Strength	//	MPa	100	120	98	190
Tensile Modulus	//	GPa	70	52	52	50
Compressive Strength	//	MPa	50	100	95	130
	⊥		75	100	95	190
Interlaminar Shear Strength		MPa	15	13	13	17
Coefficient of Thermal Expansion (RT-1000°C)	//	10 ⁻⁶ /°C	0.2	0.7	0.7	0.6
	⊥		10.8	8.6	8.6	9.2
Thermal Conductivity (25°C)	//	W/m·K	120	34	34	40
	⊥		32	15	15	12
Specific Heat	25°C	J/kg·K	750	750	750	750
	1300°C		1970	1970	1970	1970
Volume Resistivity	//	μΩcm	1300	2500	2900	2300
Reinforcement Fiber			Short Fibers	Long Fibers	Long Fibers	Short Fibers
Fiber Orientation			2D Random	0°/90°	0°/90°	2D Random
Main Applications			Precision Machined Components	Heat Resistant Structures	Heat Resistant Structures	Precision Machined Components
PLATE SIZE		mm	1000 x 2000 x 27	1000 x 2000 x 3	190 x 2000 x 75	1000 x 1000 x 6.4
			—	1000 x 2000 x 4	—	1000 x 1000 x 9
			—	1000 x 2000 x 5	—	1000 x 1000 x 11
			—	1000 x 2000 x 6	—	1000 x 1000 x 13
			—	1000 x 2000 x 8	—	1000 x 1000 x 15
			—	1000 x 2000 x 10	—	1000 x 1000 x 21
			—	1000 x 2000 x 15	—	—
SHEET SIZE		mm	—	1000 x 2000 x 1.2	—	—
			—	1000 x 2000 x 1.6	—	—
			—	1000 x 2000 x 2	—	—

*The above data are typical values information only and are not binding.

*Sheets FS240 and other shaped components are excluded.